No. 8500198

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Nickerson American Plant Breeders, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Stallion'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington, D. C. *this* 29th *day of* April *in the year of our Lord one thousand nine hundred and* eighty-eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

'Stallion'

APPROVAL EXPIRES 4-30-85

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S)
Nickerson American Plant Breeders Inc.

2. TEMPORARY DESIGNATION
NAHW81-297 or APHW81-297

3. VARIETY NAME
Stallion

4. ADDRESS *(Street and No. or R.F.D. No., City, State, and Zip Code)*
5201 Johnson Drive, P.O. Box 2955
Mission, KS 66201

5. PHONE *(Include area code)*
(913) 384-4940 KS
(303) 532-3721 CO

FOR OFFICIAL USE ONLY

PVPO NUMBER
8500198

6. GENUS AND SPECIES NAME
Triticum aestivum

7. FAMILY NAME *(Botanical)*
Gramineae

FILING
DATE: Aug. 12, 1985
TIME: 2:00 [ ] A.M. [X] P.M.

8. KIND NAME
Hard Red Winter Wheat

9. DATE OF DETERMINATION
1) Fall of 1980
2) Fall of 1983

FEES RECEIVED
AMOUNT FOR FILING: $ 1,800
DATE: 8/12/85
AMOUNT FOR CERTIFICATE: $ 200.00
DATE: March 17, 1988

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION
January 19, 1983

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

R. E. Heiner
P.O. Box 2955
Mission, KS 66201
(913) 384-4940

R. F. Bruns or C. L. Bruns
P.O. Box 30
Berthoud, CO 80513
PHONE *(Include area code)*: (303) 532-3721

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. [X] Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
b. [X] Exhibit B, Novelty Statement.
c. [X] Exhibit C, Objective Description of Variety *(Request form from Plant Variety Protection Office.)*
d. [X] Exhibit D, Additional Description of Variety.
e. [X] Exhibit E, Statement of the Basis of Applicant's Ownership.
[X] f. Exhibit F. Quality and Statistical Data

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act.)*
[X] Yes *(If "Yes," answer items 16 and 17 below)* [ ] No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
[X] Yes [ ] No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
[X] Foundation [X] Registered [X] Certified

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
[ ] Yes *(If "Yes," give date)*
[X] No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
[ ] Yes *(If "Yes," give names of countries and dates)*
[X] No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT
Robert F. Bruns
DATE: 7-29-85

SIGNATURE OF APPLICANT
R E Heiner
DATE: 7-31-85

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FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)

8500198

Exhibit A

Origin and Breeding History of Stallion

PEDIGREE: Selection from bulked population of adapted by winterhardy parent crosses.

DATE OF CROSS: 1975

HISTORY: The history of Stallion started in 1975 with a traditional crossing block. F1 of the crosses were grown out in 1976. In 1977 each cross was evaluated as an F2 population. In order to carry a large genetic base forward in the program a number of these crosses with adapted by winterhardy parents were bulked together and designated as winterhardy bulk. This bulk was grown at several locations in the Great Plains, harvested, and mass selected for seed filling using the gravity table. Individual F4 plants were selected in 1979. These selections were observed at three locations in 1980. The best of these selections were advanced into yield trials in 1981. One of these selections was designated HW81-297. In 1983, 100 head-rows were grown to make up the original Breeders seed. The name Stallion was appointed in 1985.

Stallion is uniform and stable. Less than 1% of the plants were rogued from the foundation fields in 1983. Approximately 90% of these rogued plants were 3 to 12 centimeters taller than Stallion. Less than .5% of these taller plants may be encountered in subsequent generations.

Exhibit B

Novelty Statement

Stallion is most similar to the hard red winter wheat Arkan, however it can be easily distinguished by the following morphological characteristics:

- Stallion expresses auricle anthocyanin. Arkan is patented as not expressing auricle anthocyanin.

- Stallion does not have hairs on the first leaf sheath. Arkan is patented as having hairs on the first leaf sheath.

- Both Stallion and Arkan are patented as having acuminate beaks, however they differ significantly in length of the beak (see statistical data).

- Stallion's juvenile growth habit is semi-erect. Arkan's juvenile growth habit is patented as prostrate.

- Stallion's seed expresses rounded cheeks and has narrow and shallow seed crease characteristics. Arkan's seed is patented as having angular cheeks, and midwide and middeep crease characteristics.

- Stallion's glume length is short. Arkan's glume length is medium (see statistical data).

- Both Stallion's and Arkan's glume widths are described as narrow, however they differ significantly (see statistical data).

A.N.O.V.A. Table for Beak Length
Stallion Vs. Arkan

Source	df	ss	ms
Total	49	357.87	
Var	1	272.38	272.38**
Error	48	85.49	1.78

F Test = 153.02**

The probability that the difference in means of beak length are significantly different at the 1% alpha level.

Means
Stallion = 6.5mm
Arkan = 1.5mm

A.N.O.V.A. Table for Glume Length
Stallion Vs. Arkan

Source	df	ss	ms
Total	49	13.18	
Var	1	6.84	6.84**
Error	48	6.34	.13

F_s Test = 52.62**

The probability that the difference in means of glume width are significantly different at the 1% alpha level.

Means

Stallion = 7mm
Arkan = 6.2mm

A.N.O.V.A. Table For Glume Width
Stallion Vs. Arkan

Source	df	ss	ms
Total	49	4.68	
Var	1	1.84	1.84**
Error	48	2.83	.06

F_s Test = 30.67**

The probability that the difference in means of glume width are significantly different at the 1% alpha level.

Means
Stallion = 3mm
Arkan = 2.7mm

'Stallion'

FORM APPROVED: OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Nickerson American Plant Breeders Inc.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)
5201 Johnson Drive
Mission, KS 66201

FOR OFFICIAL USE ONLY
PVPO NUMBER 8500198

VARIETY NAME OR TEMPORARY DESIGNATION
STALLION

5 11/4/88

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. KIND:

[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

[2] 1 = SPRING 2 = WINTER 3 = OTHER (*Specify*) _____ [2] 1 = SOFT 2 = HARD 3 = OTHER (*Specify*) _____

[2] 1 = WHITE 2 = RED 3 = OTHER (*Specify*) _____

3. SEASON - NUMBER OF DAYS FROM [redacted] planting TO:

[2][2][9] FIRST FLOWERING [2][3][5] LAST FLOWERING

4. MATURITY (*50% Flowering*):

[0][4] NO. OF DAYS *EARLIER* THAN ..... [2] 1 = ARTHUR 2 = SCOUT 3 = CHRIS

[-][-] NO. OF DAYS *LATER* THAN ..... [-] 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (*From soil level to top of head*):

[0][8][4] CM. HIGH

[-][-] CM. TALLER THAN ..... [-]

[2][1] CM. SHORTER THAN ..... [2] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (*See reverse*):

[2] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN blue-green at anthesis

7. ANTHER COLOR:

[1] 1 = YELLOW 2 = PURPLE

8. STEM:

[1] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom: 1 = ABSENT 2 = PRESENT

[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

[1] Internodes: 1 = HOLLOW 2 = SOLID

[0][5] NO. OF NODES (*Originating from node above ground*)

[2][2] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

[2] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

[1] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER (*Specify*): _____

[2] Flag leaf: 1 = NOT TWISTED 2 = TWISTED

[1] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

[1][2] MM. LEAF WIDTH (*First leaf below flag leaf*)

[2][5] CM. LEAF LENGTH (*First leaf below flag leaf*):

'Stallion'

FORM GR-470-6 (REVERSE) 8500198

11. HEAD:

[3] Density: 1 = LAX 2 = DENSE 3=middense

[1] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____

average 40 mm

[4] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[1] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____

[7.5] CM. LENGTH [10] MM. WIDTH

12. GLUMES AT MATURITY:

[1] Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)

average 7 mm

[1] Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

average 3 mm

[2] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[3] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

average 7.9 mm

13. COLEOPTILE COLOR:

[1] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[2] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

[2] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

[1-3] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL ovate to elliptical

[1] Cheek: 1 = ROUNDED 2 = ANGULAR

[2] Brush: 1 = SHORT 2 = [redacted] midlong 3 = LONG

[1] Brush: 1 = NOT COLLARED 2 = COLLARED

[-] Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[3] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

[06] MM. LENGTH [03] MM. WIDTH [42] GM. PER 1000 SEEDS

17. SEED CREASE:

[1] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[1] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Moderately Susceptible 4=Moderately Resistant

[3] STEM RUST (Races) field [4] LEAF RUST (Races) field [0] STRIPE RUST (Races) _____ [0] LOOSE SMUT

[3] POWDERY MILDEW [0] BUNT [0] OTHER (Specify) _____

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Moderately Susceptible 4=Moderately Resistant

[0] SAWFLY [0] APHID (Bydv.) [0] GREEN BUG [0] CEREAL LEAF BEETLE

[0] OTHER (Specify) _____

HESSIAN FLY RACES: [4] GP [0] A [0] B [0] C [0] D [0] E [0] F [0] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Arkan	Seed size	Arkan
Leaf size	Arkan	Seed shape	Arkan
Leaf color	Arkan	Coleoptile elongation	Arkan
Leaf carriage	Arkan	Seedling pigmentation	Arkan

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form.

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States. Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook on seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

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Exhibit D

Additional Description of Stallion

Stallion is a hard red winter wheat tested as NAHW81-297 or APHW81-297. It was bred and developed by Nickerson American Plant Breeders Inc.

Stallion is a short semidwarf variety with excellent straw strength characteristics, medium to early maturity and moderate winterhardiness. Milling and baking properties are good.

Juvenile plant growth is semi-erect. Plant color is green turning blueish-green at anthesis with an erect, twisted flag leaf. Head shape is tapering to strap, middense, awned and white at maturity. Glumes are short in length and narrow in width with oblique shoulders and long acuminate beaks. Seed shape is ovate to elliptical with rounded cheeks and midlong brush hairs.

Stallion is a broadly adapted variety. Its short and lodging resistant straw makes it a natural for all irrigated production. Combine the straw strength with unique disease protection factors and you have an excellent "Bottom ground" or maximum production variety. Add in early maturity, good grazing characteristics, excellent test weight patterns, and excellent drought performance to make an excellent double cropping and southern plains variety. Production north of approximately the Kansas border would be limited by stem rust susceptibility.

8500198

WHEAT

CLASS: Hard Red Winter

NAME: Stallion

NOMENCLATURE: Triticum aestivum

P.I. No.:

RELEASED: 1986

REGISTRATION NO.:

SELECTION NO.: NAHW81-297 or APHW81-297

PEDIGREE: A selection from a bulk population derived from crosses of adapted by winterhardy parents made in 1975.

CULTIVAR DESCRIPTION: Stallion is a short semidwarf variety with excellent straw strength characteristics, medium to early maturity and moderate winter-hardiness. Juvenile growth habit is semi-erect. Plant color is green turning blueish green at anthesis with an erect twisted flag leaf. Head shape is tapering to strap, middense, awned and white at maturity. Glumes are short in length and narrow in width with oblique shoulders and long acuminate beaks. Seed shape is ovate to elliptical with rounded cheeks and midlong brush hairs.

ADAPTATION AND CHARACTERISTICS: Stallion is a broadly adapted variety. Its short and lodging resistant straw makes it a natural for all irrigated production. Combine the straw strength with unique disease protection factors and you have an excellent "bottom ground" or maximum production variety. Add early maturity, good grazing characteristics, excellent test weight patterns and excellent drought performance to make an excellent double-cropping and southern plains variety. Production north of approximately the Kansas border would be limited to stem rust susceptibility.

GENERAL INFORMATION: Stallion is most similar in appearance to the HRWW variety Arkan. The noticeable field differences are glume length and width. Stallion has a short glume length while Arkan's is medium, also Stallion's beak length is significantly longer than Arkan's.

OTHER SOURCES OF INFORMATION: Nickerson American Plant Breeders Inc.
5201 Johnson Drive
Mission, KS 66201

Nickerson American Plant Breeders Inc.

YEAR: 1984 — HARD RED WINTER WHEAT QUALITY —

			WHEAT--FLOUR QUALITY						BAKING QUALITY									
YEAR	SAMPLE NAME	LOC	TEST WT.	WHT PROT	FLR YLD	FLR PROT	FLR ASH	MIX CURVE	ABS.	MIX TIME	DOUGH CHAR	LOAF VOL	CRUMB GRN	CRUMB TEX	CRUMB COL	MILL SCORE	BAKE SCORE	TOTAL SCORE
			lb/Bu	14%mb	%	14%mb	14%mb	R	%	min	R	cc	R	R	R			
82	Stallion	LK	60.1	13.2	72.1	12.2	0.000	6	61.0	4.0	9	800	7	9	8	88-B	80-B	168-B
83	Stallion	LK	60.3	13.5	69.5	12.9	0.398	6	60.0	4.0	8	960	8	9	9	84-B	85-B	169-B
83	Stallion	SK	62.4	13.1	67.7	11.5	0.418	6	59.0	4.0	8	875	9	8	9	77-C	78-C	155-C
83	Stallion	SN	60.9	14.2	66.7	12.4	0.396	5	61.0	3.3	8	880	8	9	8	75-C	80-B	155-C
83	Stallion	BB	51.7	12.3	64.5	10.9	0.378	5	60.0	5.3	8	960	8	9	9	53-F	83-B	136-D
84	Stallion	SO	59.2	12.3	70.6	11.0	0.337	5	61.0	4.0	8	875	8	8	8	72-C	81-B	153-C
84	Stallion	SO	59.1	13.0	72.3	11.6	0.398	5	60.0	4.5	8	980	9	9	8	81-B	84-B	165-B
84	Stallion	GI	60.5	15.0	72.1	12.3	0.453	5	63.0	4.3	8	925	8	8	8	85-B	86-B	171-B
84	Stallion	SO	61.2	13.0	72.8	11.7	0.000	6	62.0	4.5	7	1000	8	7	8	86-B	86-B	172-B
84	Stallion	BB	62.5	12.6	71.9	11.2	0.000	4	61.0	3.3	8	1000	8	8	8	75-C	84-B	159-C
	AVERAGE		59.8	13.2	70.0	11.8	0.397	5	60.8	4.1	8	926	8	8	8	78-C	81-B	159-C
82	NEWTON	LK	52.1	12.4	69.7	11.6	0.000	6	62.0	4.5	9	850	8	8	8	65-D	84-B	149-C
83	NEWTON	LK	58.5	12.8	69.9	11.7	0.424	7	61.0	4.3	7	1000	8	9	9	78-C	88-B	166-B
83	NEWTON	SK	58.2	11.9	69.0	10.0	0.424	6	60.0	4.3	8	875	9	8	9	67-D	80-B	147-C
83	NEWTON	SN	58.4	14.3	63.8	13.1	0.434	7	65.0	3.0	7	1000	8	8	8	82-B	89-B	171-B
83	NEWTON	BB	48.5	12.4	60.3	11.0	0.448	7	62.0	4.5	7	1000	9	8	9	60-D	89-B	148-C
84	NEWTON	SO	56.7	11.9	68.1	10.4	0.375	6	62.0	4.5	7	960	8	9	8	62-D	86-B	148-C
84	NEWTON	SO	55.4	12.0	69.6	10.8	0.399	4	59.0	4.8	8	920	8	8	7	60-D	78-C	138-D
84	NEWTON	GI	57.5	14.0	70.3	11.5	0.439	6	63.0	3.5	8	925	8	9	9	77-C	89-B	166-B
84	NEWTON	SO	57.5	11.6	69.3	10.5	0.000	4	60.0	3.8	8	860	9	7	8	62-D	78-C	140-C
84	NEWTON	BB	61.3	12.5	71.7	11.2	0.000	7	66.0	2.5	7	960	9	8	8	83-B	86-B	169-B
	AVERAGE		56.4	12.6	68.7	11.2	0.420	6	62.0	4.0	8	935	8	8	8	69-D	84-B	153-C

GRADES: A-EXCELLENT B-GOOD C-ACCEPTABLE D-QUESTIONABLE F-UNACCEPTABLE
R=RATINGS: 9-10=EXCELLENT 8=GOOD 7=ACCEPTABLE 5-6=QUESTIONABLE 1-4=UNACCEPTABLE

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EXHIBIT E.

Statement of the Basis of Applicant's Ownership

Nickerson American Plant Breeders Inc. is the applicant for protection in this case being:

a) the incorporated business (registered in Delaware) for and within which regular employees have bred the named variety.

b) the proprietory owner and intending commercial user of the variety.